

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 08-001408

(43)Date of publication of application : 09.01.1996

(51)Int.Cl. B23B 27/14
B23P 15/28
C23C 16/34
C23C 16/36
C23C 16/40

(21)Application number : 06-156842

(71)Applicant : MITSUBISHI MATERIALS CORP

(22)Date of filing : 15.06.1994

(72)Inventor : YOSHIMURA HIRONORI
OSADA AKIRA
UNOU KENICHI

(54) CUTTING TOOL MADE OF SURFACE-COVERED TUNGSTEN CARBIDE BASE CEMENTED CARBIDE HAVING EXCELLENT IN-LAYER ADHESION OF HARD COVERED LAYER

(57)Abstract:

PURPOSE: To provide a cutting tool made of surface-covered cemented carbide having excellent in-layer adhesion of the hard covered layer.

CONSTITUTION: A hard covered layer of the prescribed mean thickness within 3-30 μ m consisting of a first layer consisting of TiN having the granular crystalline structure, a second layer consisting of the TiCN sectioned layer having a plurality of longitudinal growing crystal structure which is sectioned by the TiN sectioned layer consisting of one or two or more layers having the granular crystalline structure, a third layer consisting of Al₂O₃ having the structure mainly of the kappa type crystal, and a fourth layer consisting of TiN having the granular crystalline structure as necessary is formed on the surface of a cemented carbide base body.

LEGAL STATUS

[Date of request for examination] 31.03.1999

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number] 3230372

[Date of registration] 14.09.2001

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]